

LIST OF INSECT TYPE SPECIMENS IN THE  
ENTOMOLOGICAL COLLECTION OF  
BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH, NO. V.

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ABSTRACT.— Type material added to the Brigham Young University Life Sciences Museum insect collection includes 6 holotypes, 5 allotypes, 106 paratypes, 78 cotypes, 48 homotypes, 1 metatype, and 1 androtype.

Since the previous lists (I-IV)<sup>2</sup> were published, the following type specimens have been added to the University Type Collections. Thousands of specimens have also been added to the research collection. The pinned collection now consists of more than 900,000 specimens. These are arranged in cabinets, catalogued as to orders, families, genera and species. Fortunately, rather intensive collecting was conducted in many areas of this region prior to the changes that have been made in the lands, watersheds, and drainage of the Great Basin. The biota of one hundred years ago is now greatly changed. Introduced plants and animals, along with killing and poisoning activities, have reduced and may have exterminated some species.

In 1974, Mrs. Lucile Maughan Johnson, wife of the late D. Elmer Johnson, contributed their bee-fly (Bombyliidae) collection to the Life Sciences Museum at Brigham Young University. This collection consisted of 6,400 pinned specimens. Included in it are many type specimens.

ORDER HEMIPTERA  
Family Belostomatidae

*Abedus herberti utahensis* Menke

Univ. Calif. Publ. Ent. 16(8):423-424, 1960.

3 paratypes: St. George, Utah; V-1917, V. M. Tanner.

ORDER HOMOPTERA  
Family Hydrometridae

*Hydrometra becki* Drake

Bull. So. Calif. Acad. Sci. 50(2):103, 1951.

3 paratypes: Solomon Islands; Guadalcanal; VI-30-1944, D. E. Beck.

ORDER COLEOPTERA  
Family Cantharidae

*Malthodes thedae* Fender

Northwest Sci. 42(3):108-110.

Holotype (male): Hat Creek, Lassen National Forest, California; VI-24-1961, S. L. Wood, J. B. Karren, and D. E. Bright.

Family Elateridae

*Megopenthes apacheorum* Becker

Canadian Ent. 103(2):157-160, 1971.

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<sup>2</sup>List I, Proc. Ut. Acad. Sci., Arts, and Letters 12:181-193, 1935. List II, Proc. Ut. Acad. Sci., Arts, and Letters 13:147-152, 1936. List III, Great Basin Nat. 29:150-164, 1969. List IV, Great Basin Nat. 29:183-205, 1969.

2 paratypes: 1 mi. south of Prescott, Yavapai Co., Arizona; VIII-1-1962,  
S. L. Wood, J. B. Karren, H. Shurtliff.

#### Family Tenebrionidae

*Edrotes leechi* Doyen

Pan. Pacific Ent. 44(3):218, 1968.

2 paratypes: Arches National Monument, Grand Co., Utah; VII-25-1965,  
J. Doyen, on sand dunes at night.

#### Family Curculionidae

*Tychius badius* Clark

Brigham Young Univ. Sci. Bull. Biol. Ser. 13(3):25-26, 1971.

4 paratypes (two males, two females): La Plata Co., Mancos, Colorado,  
W. E. Clark, V-1969; sweeping *Astragalus scopulorum*.

*Tychius phalarus* Clark

Brigham Young Univ. Sci. Bull. Biol. Ser. 13(3):31-33, 1971.

2 paratypes (one female, one male): Organ Pipe Cactus National Monument, Dripping Springs, Arizona; IV-1969, W. E. Clark.

*Protostrophus peninsularis* Mshl.

Ann. Mag. Nat. Hist. (12)6:323.

6 cotypes: South Africa, Cap Penin. Ralk Bay; XI-1950, G. A. K. Marshall.

*Stenoscelis lefeuvrei* Mshl.

Ann. Mus. Congo Belge (Ser. 8) Sci. Zool. 25:23.

5 cotypes: 5 Mulimgu, P. C. Lefevre, 1951, P.C.L. 586. Coll. R. Mayne,  
Com. Et. Bois. Congo, R. 2354.

*Celetes bondari* (Mshl.)

Rev. Ent. Rio de J. 14, 1943.

5 cotypes (2 male, 3 female): Brazil, Bahia, 1939, Dr. G. Bondar, #2625.

*Conotrachelus leucophrys* Mshl.

Rev. Ent. Rio de J. 11:646, 1940.

3 cotypes (1 male, 1 female): Brazil, Bahia, G. Bondar, #1519; (1 female):  
Brazil, Bahia, 1935 Dr. G. Bondar, #1880. In fruit of *Bacupary mirim*.

*Opterus waigeensis* Mshl.

The Otiorrhynchine Curculionidae of the Tribe Celeuthetini (Col.) British  
Museum, p. 93, 1956.

1 cotype (female): Waigen, Browning 63-47.

*Cyrionyx pipesis* Mshl.

Ent. Mon. Mag. 76:176, 1940.

6 cotypes (male): British West Indies, St. Lucia, 1000 ft. XI-20-1939,  
R. G. Gennah, #324, on *Pipes* sp.

*Aspidomycter lunatus* Mshl.

Ann. Mag. Nat. Hist. (11)10:109, 1943.

2 cotypes (female): Gopaldhara, Rungbong Vall., Sikkim, H. Stevens,  
1916-218.

*Macrocorynus inermipeo* Voss

Rev. Ent. Rio de J. 18:57, 1947.

3 paratypes: L. edoardo. Ecydor. V-22-1938.

#### ORDER DIPTERA Family Bombyliidae

*Parabombylius subflavus* Painter

Ent. News 37:76, 1926.

1 homotype: Arivaca, Arizona; III-12-1940, L. C. Knutert.

*Heterostylum crocruum* Painter

Kans. Ent. Soc. Jour. 3:6, 1930.

1 homotype: Giddings, Texas; V-5-1954, R. H. Beamer.

*Heterostylum robustum* Osteu Sacken

(U.S. Dept. Int.) U.S. Geol. Geog. Survey Ter. Bull. 3:257, 1877.

1 homotype: Texas, Belfrage.

*Lordotus apiculus* Coq.

Ent. Amer. 3:116, 1887.

1 homotype: Dugway Proving Grounds, Tooele Co. IV-23-1956.,  
D. E. Johnson.*Lordotus bucerus* Coq.

Amer. Ent. Soc. Trans. 21:110, 1894.

1 homotype, Ehrenberg, Arizona; IV-16-1934, F. H. Parker.

*Lordotus junceus* Coq.

West Amer. Sci. 7:198, 1891.

2 homotypes: Amortajada Bay, Isla San José, Gulf of California, Mexico;  
III-25-1953.*Lordotus m. miscellus* Coq.

Ent. Amer. 3:116, 1887.

2 homotypes: Walker Pass, California; IX-16-1945, D. E. Johnson.

*Lordotus perplexus* Johnson and Johnson

Great Basin Nat. 19(1):16, 1959.

4 paratypes: San Diego, California.

2 paratypes: Sabino Canyon, Arizona.

*Lordotus ermae* Hall

Pan-Pacific Ent. 28:49, 1952.

2 paratypes: Tanbark Flat, Los Angeles Co., California; VI-20-1950,  
J. C. Hall.1 paratype: Johnston Point, Los Angeles Co., California;  
VII-14-1950, R. Schuster.*Lordotus lutescens* Johnson and Johnson

Great Basin Nat. 19(1):15, 1959.

Holotype and Allotype: Las Cruces, New Mexico; IV-25-1954,  
R. H. Beamer.*Geminaria canalis* Coq.

Ent. Amer. 3:115, 1887.

1 homotype: Tucson, Arizona; IV-23-1937, O. Bryant.

*Aldrichia chrmanni* Coq.

Amer. Ent. Soc. Trans. 21:94, 1894.

1 homotype: Robertson, Carlinville, Illinois.

*Toxophora pellucida* Coq.

Ent. Amer. 1:222, 1886.

1 homotype: Patagonia, Santa Cruz Co., Arizona; VIII-25-1955,  
F. G. Werner and G. D. Butler.*Toxophora vista* Coq.

West Amer. Sci. 7:199, 1891.

1 homotype: Skull Valley, Tooele Co., Utah; VI-14-1956, D. E. Johnson.

*Toxophora maxima* Coq.

Ent. Amer. 1:222, 1886.

2 homotypes: Geddings, Texas; V-10-1954, L. D. Beamer.

1 homotype: Tucson, Arizona; VII-14-1954, G. D. Butler.

*Aphoebantus borealis* Cole

Calif. Acad. Sci. Proc., Ser. 4:11:251, 1921.

1 homotype: San Antonio, R. S. Santa Clara Co., California;  
VI-27-1953, R. A. Schuster.*Aphoebantus tardus* Coq.

West Amer. Sci. 7:10, 1891.

2 homotypes: Dateland, Arizona; IV-2-1955, Butler and Wernest.

*Dicranoclista vandykei* Coq.

Amer. Ent. Soc. Trans. 21:94, 1894a.

1 homotype: Davis Mountains, Texas; IV-17-1954, L. D. Harmer.

*Villa syrtis* (Coq.)

Amer. Ent. Soc. Trans. and Acad. Nat. Sci. Phila., Ent. Sect.

Proc. 14:173, 1887a.

1 homotype: San Bernardino Co., California, May.

*Villa cinerea* Cole

Calif. Acad. Sci. Proc., Ser. 4:12:299, 1923.  
 1 homotype: Inyokern Co., California; V-21-1945, D. E. Johnson.  
 2 homotypes: Sabino Canyon, Arizona; IV-30-1956, G. D. Butler.  
 1 homotype: Mesa, Arizona; IV-10-1952, D. E. Johnson.

*Villa flavipilosa* Cole

Calif. Acad. Sci., Ser. 4:12:303, 1923.  
 3 homotypes: Sabino Canyon, Pima Co., Arizona; V-5-1955,  
 G. D. Butler.

*Villa meridionalis* Cole

Calif. Acad. Sci. Proc., Ser. 4:12:292, 1923.  
 1 homotype: Oracle Junction, Pima Co., Arizona; VII-1948,  
 F. Werner.

*Villa vigilans* (Coq.)

Amer. Ent. Soc. Trans. and Acad. Nat. Sci. Phila., Ent. Sect.  
 Proc. 14:176, 1887.  
 3 homotypes: Walker's Pass, California; VIII-16-1945, D. E. Johnson.

*Villa crocina* (Coq.)

Amer. Ent. Soc. Trans. 19:183, 1892.  
 1 homotype: Roll, Arizona; VI-13-1957, G. D. Butler.

*Lepidanthrax inauratus* (Coq.)

Amer. Ent. Soc. Trans. and Acad. Nat. Sci. Phila. Ent. Sect.  
 Proc. 14:170, 1887a.

4 cotypes: San Diego and Sacramento, California.  
 1 homotype: San Francisco, California; V-21-1922; San Dunes, C. L. Fox.

*Lepidanthrax hyalinipennis* Cole

Calif. Acad. Sci. Proc., Ser. 4, 12:307, 1923.  
 3 homotypes: Inyokern, California; VIII-4-1945, D. E. Johnson.  
 1 paratype: Sanford, Arizona; IX-24-1956, G. D. Butler.  
 1 paratype: San Francisquito Bay, Gulf of California.  
 3 paratypes: Tortuga Island, Gulf, California; V-11-1921, E. P. Van Duzee.  
 1 paratype: Angeles Bay, Gulf, California; VI-23-1921, E. P. Van Duzee.

*Lepidanthrax angulus* O. S.

Biologia Centrali-Americana, Diptera 1:111, 1886.  
 1 homotype: Superior, Arizona; V-2-1938, E. C. Crumb.

*Lepidanthrax agrestis* (Coq.)

Amer. Ent. Soc. Trans. and Acad. Nat. Sci. Phila. Ent. Sect.  
 Proc. 14:171, 1887.  
 1 cotype: California, Coq.

1 homotype: Delta, Utah; VII-4, D. E. Johnson.

*Lepidanthrax painteri* Maughan

Kans. Ent. Soc. Jour. 8:56, 1935.  
 1 metatype: Wendell, Idaho; VI-26-1953, A. R. Gittins, sweeping *Artemisia*.

*Poecilanthurax tanbarkensis* Painter and Hall

Kans. Agr. Expt. Sta. Tech. Bull. 21, 1960.  
 1 paratype: Tanbark Flat, Los Angeles Co., California; VII-14-1956, R. W. Bushing.

*Poecilanthurax vexativus* Painter and Hall

Kans. Agr. Expt. Sta. Tech. Bull. 119, 1960.  
 1 paratype: Trinidad, Colorado; VIII-7-1925, C. J. Drake.

*Poecilanthurax butleri* Johnson and Johnson

Great Basin Nat. 17(1-2):11, 1957.  
 12 paratypes: Tucson, Arizona; V-1955, G. D. Butler.

*Poecilanthurax marginatus* Johnson and Johnson

Great Basin Nat. 17(1-2):14, 1957.  
 4 paratypes: Zion National Park, Utah, and Juab Co., Utah.  
 A. M. Woodbury.

*Poecilanthurax eremicus* Painter and Hall

Kans. Agri. Expt. Sta. Tech. Bull. 106:51, 1960.

1 paratype: Near Kingman, Arizona; VII-1952, Beamer, La Berge, Liang.

*Poecilanthrax moffitti* Painter and Hall

Kans. Agri. Expt. Sta. Tech. Bull. 106:78, 1960.

2 paratypes: Walker Pass, Kern Co., California; IX-26-1957, J. C. Hall.

*Poecilanthrax montanus* Painter and Hall

Kans. Agri. Expt. Sta. Tech. Bull. 106:82, 1960.

1 paratype: Sheep Lake, Yakima Co., Washington; VIII-6-1940, J. F. O. Clark.

*Poecilanthrax sackenii monticola* Johnson and Johnson

Great Basin Nat. 17(1-2):23, 1957.

2 paratypes: Emerald Lake, Mt. Timpanogos, Utah Co., Utah; VIII-4, 1950, D. E. Johnson.

1 paratype: Pebble Basin, Idaho; VII-24-1948, D. E. Johnson.

*Poecilanthrax fasciatus* Johnson and Johnson

Great Basin Nat. 17(1-2):11, 1957.

1 paratype: Cronley, Colorado; IV-2-1939, M. T. James.

*Poecilanthrax robustus* Johnson and Johnson

Great Basin Nat. 17(1-2):20, 1957.

7 paratypes: Walker Pass, California; IX-29-1945, D. E. Johnson.

*Pantarbes pusio* Osten Sacken

Biologia Centrali-Americana, Diptera 1:153, 1886.

4 homotypes: Inyokern, California; Ribbonwood, California; Baboquivari Mts., Arizona; and Alpine, Utah Co., Utah.

*Pantarbes willistoni* Osten Sacken

Biologia Centrali-Americanica, Diptera 1:153.

1 androtype: Orgen, New Mexico; IV-20-

*Pantarbes capito* Osten Sacken

(U.S. Dept. Int.) U.S. Geol. Geog. Survey Ter. Bull. 3:256, 1877.

3 homotypes: California.

*Exoprosopa doris* Osten Sacken

(U.S. Dept. Int.), U.S. Geol. Geog. Survey Ter. Bull. 3:235, 1877.

1 homotype: Inyokern, California; VIII-5-1945, D. E. Johnson.

*Exoprosopa arenicola* Johnson and Johnson

Great Basin Nat. 18(3-4):71, 1958.

13 paratypes: Little Granite Mt., Tooele Co., Utah; VII-24-1956, D.E. Johnson.

*Exoprosopa butleri* Johnson and Johnson

Great Basin Nat. 17(1-2):11, 1957.

4 paratypes: Mesa, Sycamore Canyon and Sacaton, Arizona.

*Exoprosopa tiburonensis* Cole

Calif. Acad. Sci. Proc. Ser. 4, 12:291, 1923.

2 homotypes: Inyokern, California; VIII-4-1945, D. E. Johnson.

*Bombylius lassenensis* Johnson and Johnson, new name

*Pallescens* is preoccupied. Hesse, 1938. California.

1 holotype, 1 allotype, 5 paratypes: Herlong, California; V-7-14-16-1944, D. E. Johnson.

*Conophorus sackeni* Johnson and Maughan

Great Basin Nat. 13(1-2):22, 1953.

1 holotype, 1 allotype, 4 paratypes: Herlong, California; V-14-1944, D. E. Johnson.

*Oestranothrax farinosus* Johnson and Maughan

Great Basin Nat. 13:18, 1953.

1 holotype, 1 allotype, 9 paratypes: Delta, Utah; VII-1943, D. E. Johnson.

*Exoprosoposa sharonae* Johnson and Johnson

Great Basin Nat. 18(3-4):78, 1958.

1 holotype: Little Granite Mountain (Tooele Co., Utah).

1 allotype: Cedar Mountains, Tooele Co., Utah.

paratypes: Delta, Millard County; Simpron Springs, Tooele Co., Utah, IX-1955, D. E. Johnson.

ORDER HYMENOPTERA

Family Formicidae

*Pogonomyrmex guatemaltecus* Wheeler

Psyche 21:149-151, 1914.

3 cotypes: Zacapa, Guatemala; XII-12-1911, Wm. M. Wheeler, all 3 specimens tipped on one pin.

*Pogonomyrmex occidentalis* var. *utahensis*, Olsen

Harvard Univ. Mus. Compar. Zool. Bull. 77:498, 509, 1934.

6 cotypes: Zion National Park, Utah; VII-18-1932, W. S. Creighton, all 6 specimens tipped on two pins.

*Pogonomyrmex wheeleri* Olsen

Harvard Univ. Mus. Compar. Zool. Bull. 77:496, 511, 1934.

3 cotypes: Escuinapa, Sinaloa, Mexico, J. H. Batty, all 3 specimens tipped on one pin.

*Pogonomyrmex desertorum* Wheeler

Psyche 9:387-388, 1902.

3 cotypes: Alamito, Presidio Co.; XII-19-1901, all 3 specimens tipped on one pin.

*Pogonomyrmex (E.) saucius* Wheeler and Mann

Bull. Am. Mus. Hist. 33:29-31, 1914.

7 cotypes: Marnesville, Haiti, W. M. Mann, all 7 specimens on tips, on two pins.

*Pogonomyrmex desertorum* var. *ferrugineus* Olsen

Harvard Univ. Mus. Compar. Zool. Bull. 77:496, 506, 1934.

3 cotypes: College Peak, Tucson, Arizona, P. Klingentery, all 3 specimens on tips.

*Pogonomyrmex huachucanus* Wheeler

Psyche 21:151-152, 1914.

4 cotypes: Miller Canyon, Huachuca Mountains, 5600 feet; XI-11-1910, W. M. Wheeler, all 4 specimens tipped on one pin.

*Pogonomyrmex similis* Olsen

Harvard Univ. Mus. Compar. Zool. Bull. 77:497, 512, 1934.

Cotypes: Oracle, Arizona; III-13-1919; North Slope Mount Lemon, at 4500 feet, W. M. Wheeler.

*Pogonomyrmex comanche* Wheeler

Psyche 9:392, 1902.

4 cotypes: Milano, Sabine Co., Texas; V-23-1902, all 4 specimens tipped on one pin.

*Pogonomyrmex californicus* subsp. *sinaloanus* Olsen.

Harvard Univ. Mus. Compar. Zool. Bull. 77:55, 504, 1934.

6 cotypes: Sinaloa, Mexico, Case, all 6 specimens tipped on two pins.

*Pogonomyrmex apache* Wheeler

Psyche 9:392, 1902.

3 cotypes: Fort Davis, Texas, W. M. Wheeler, June, 1902, all 3 specimens tipped on one pin.

*Aphaenogaster (Attomyrma) boulderensis* M. R. Smith

Great Basin Nat. 2:120-121, 1941.

4 paratypes: Boulder Dam, Arizona; V-2-1941, 55661, Vasco M. Tanner.